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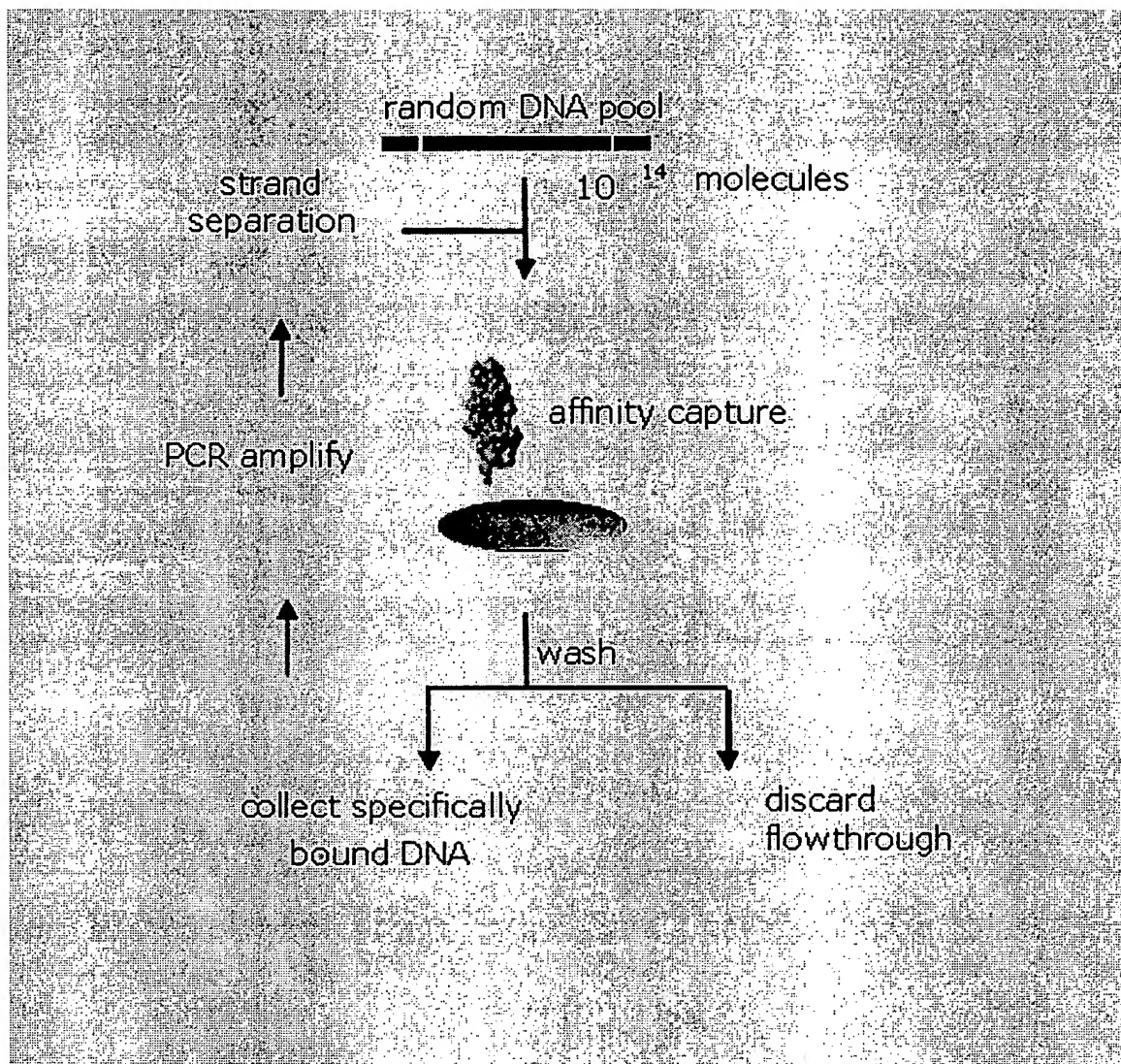
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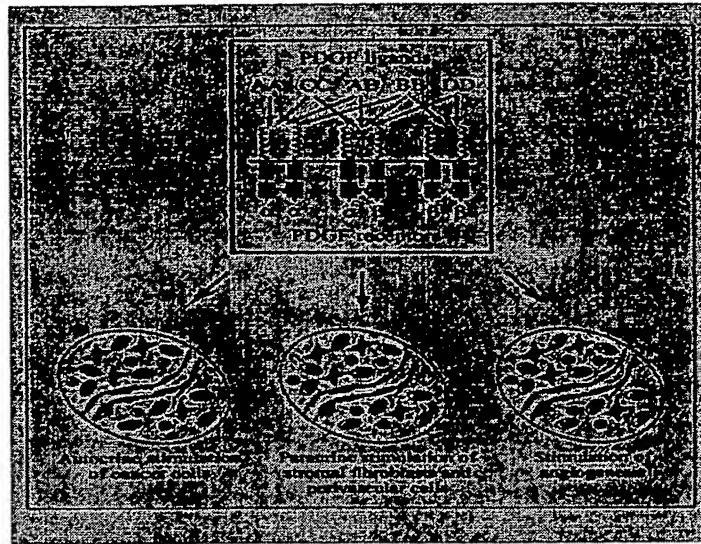
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**Figure 1**



**Figure 2**

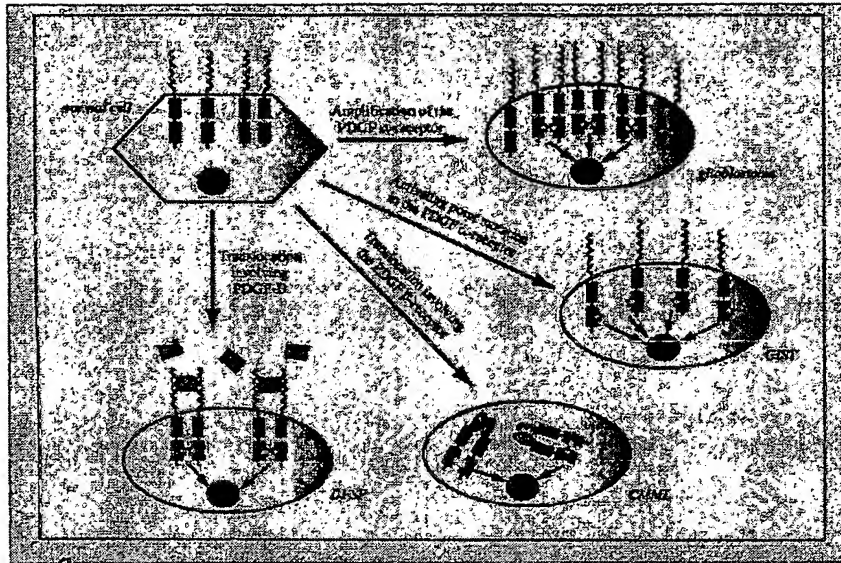
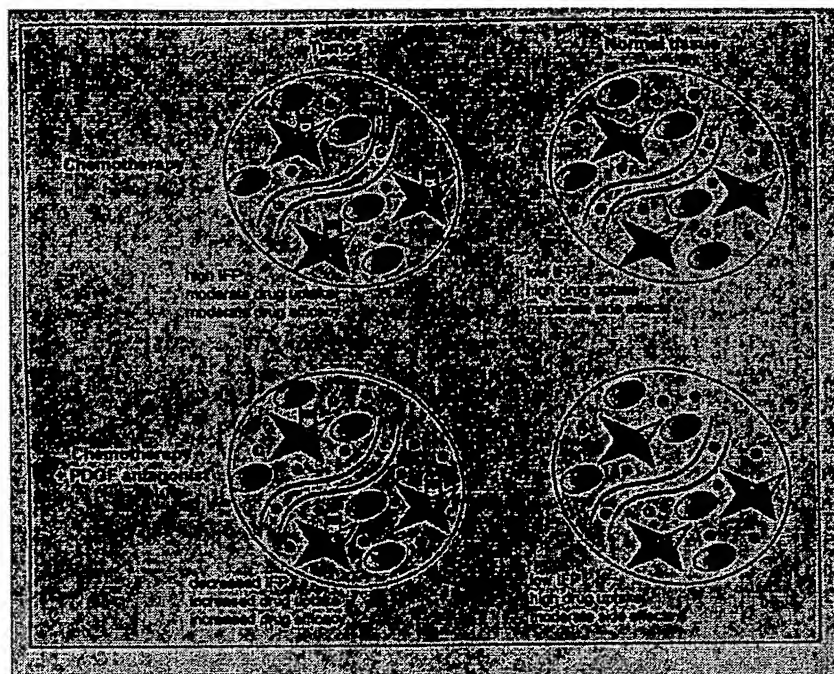


Figure 3



**Figure 4**

Figure 5A

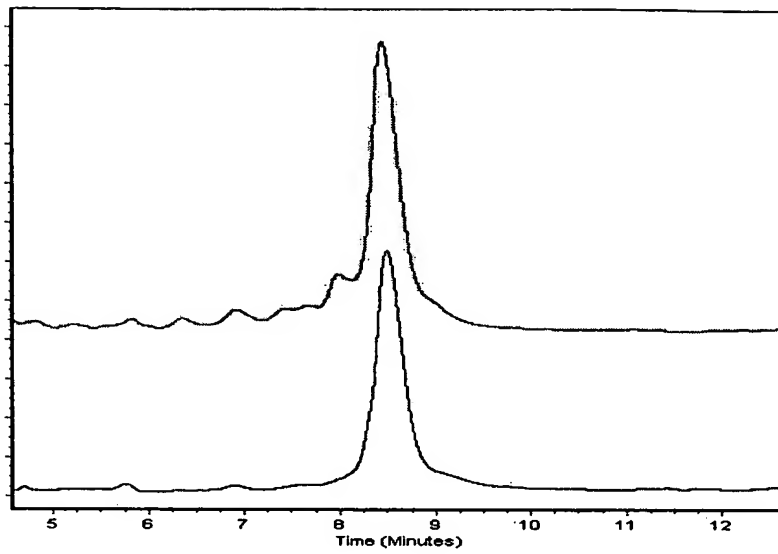
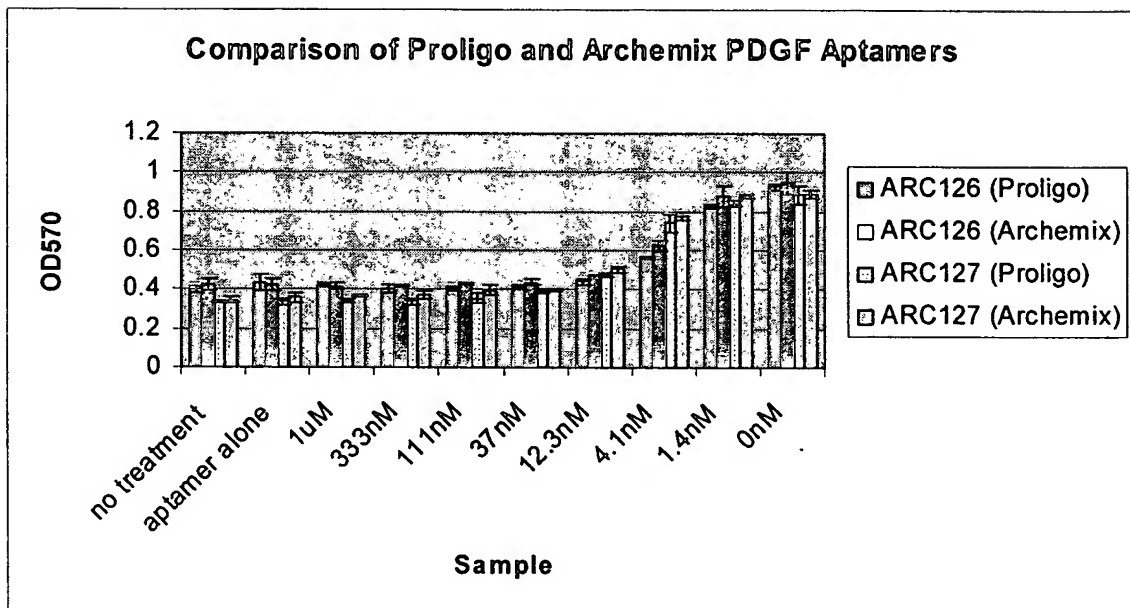


Figure 5B



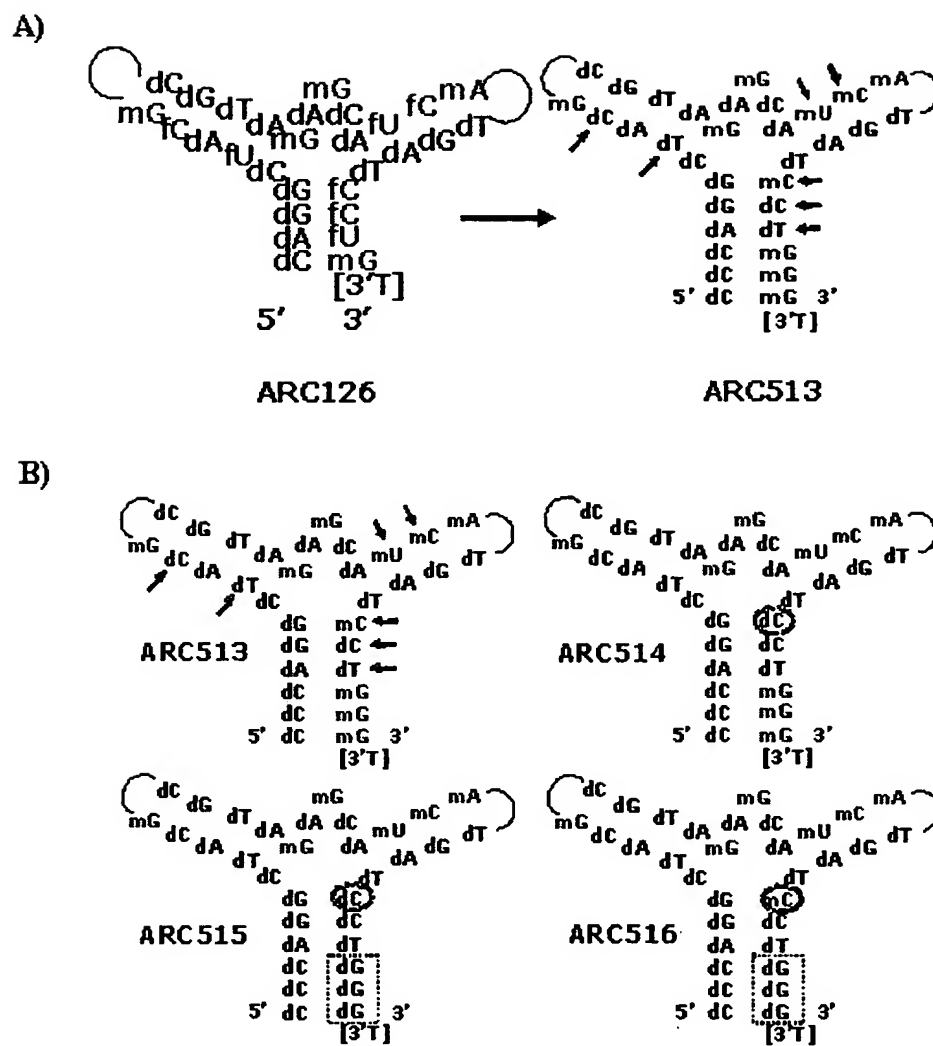
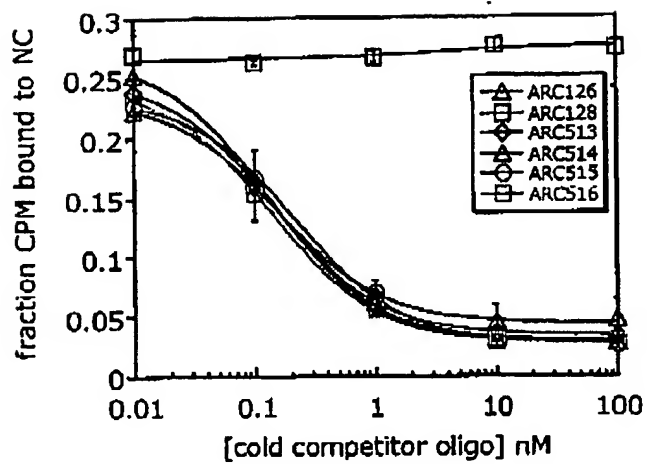


Figure 6

A)



B)

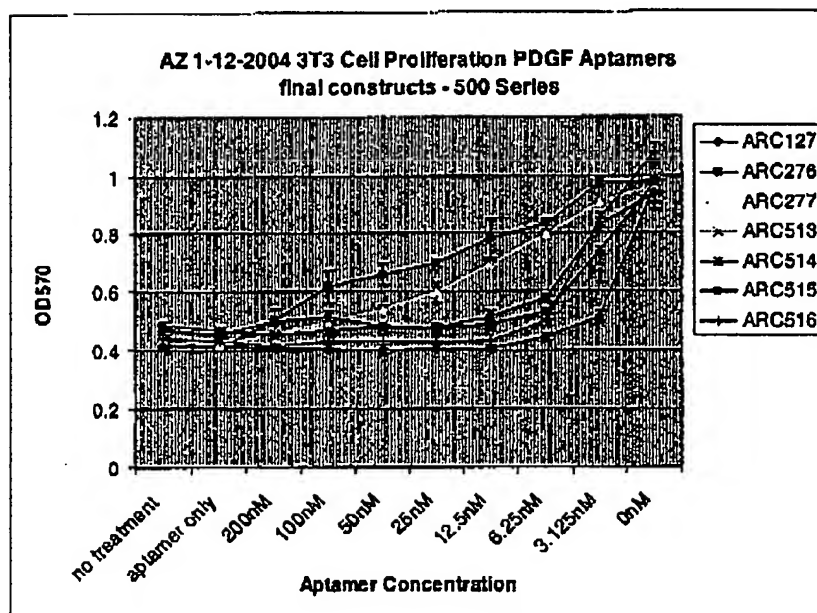
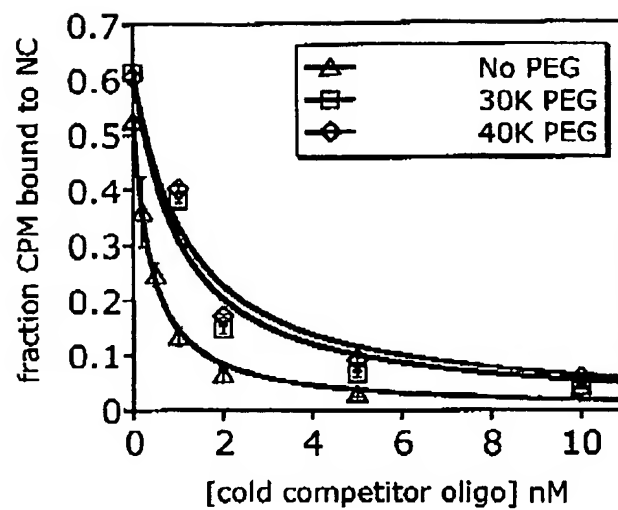


Figure 7



A)



B)

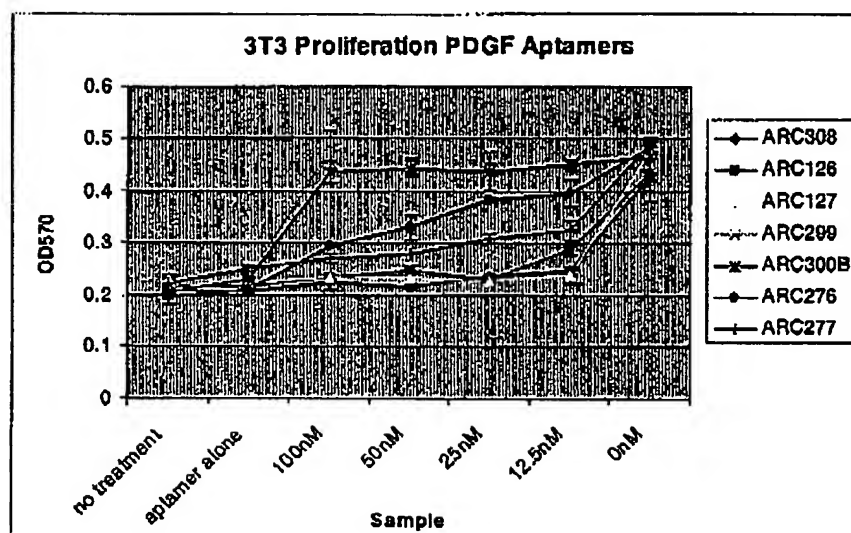
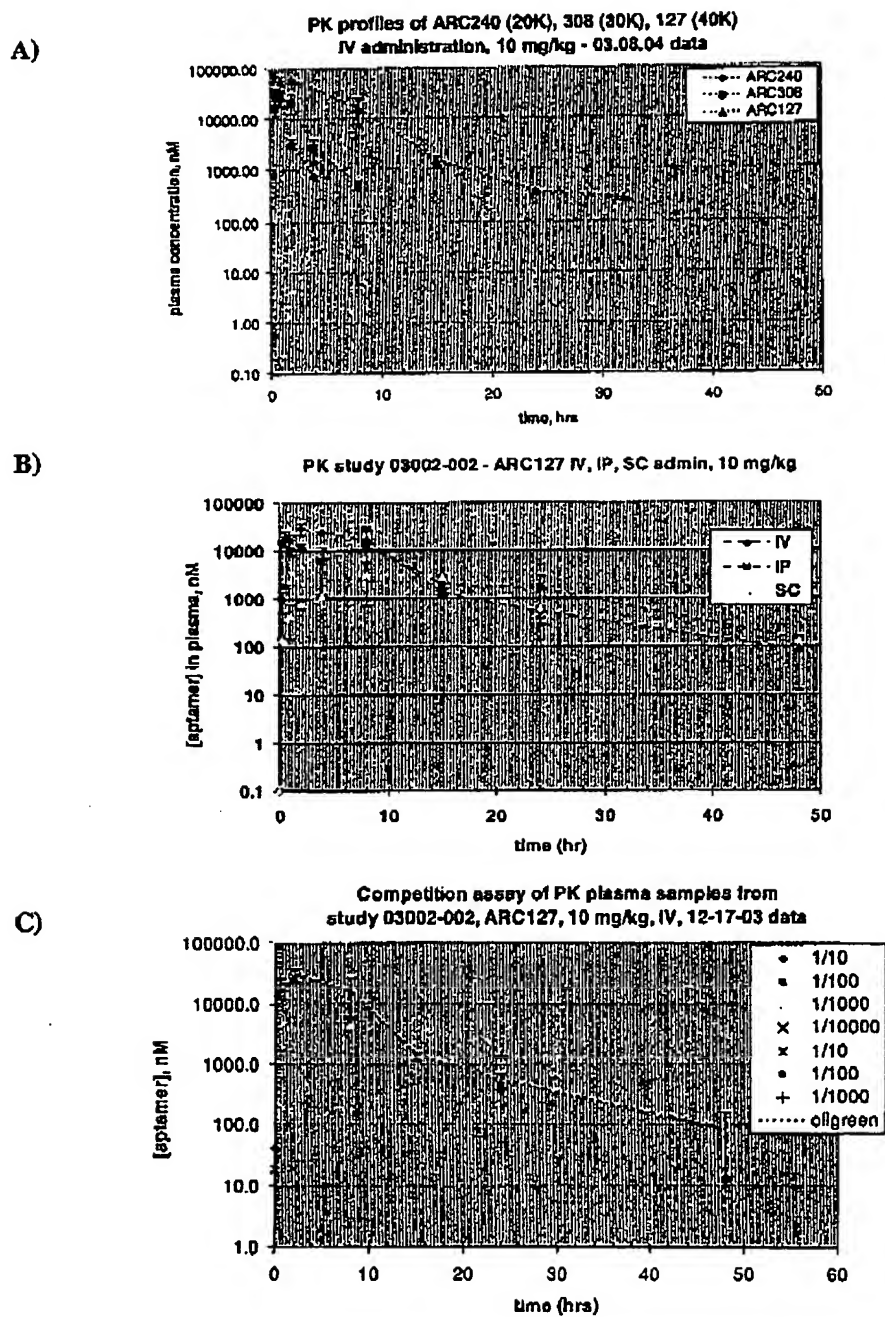
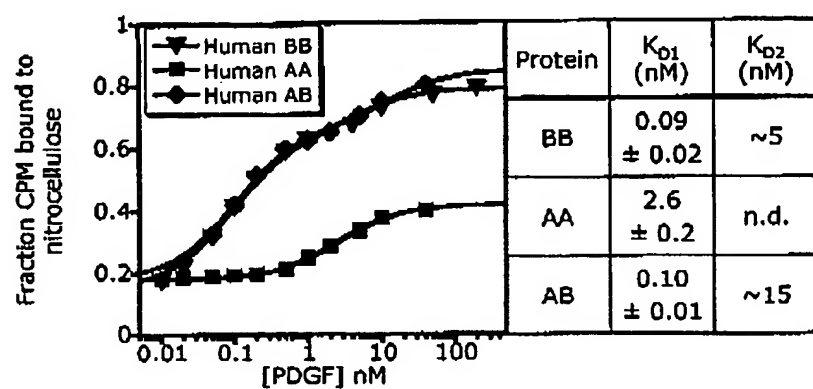


Figure 8



**Figure 9**

A)



B)

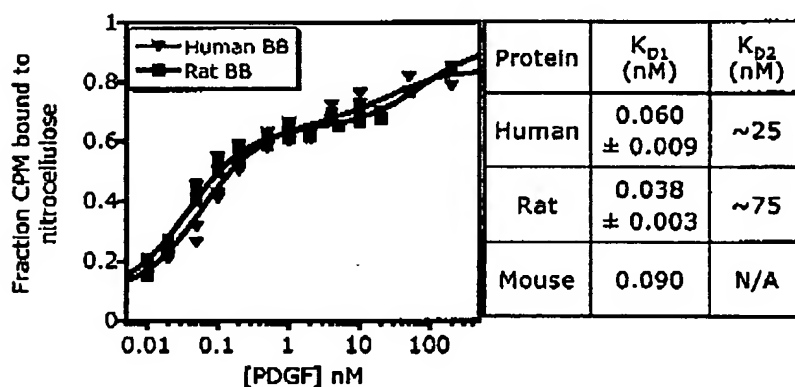
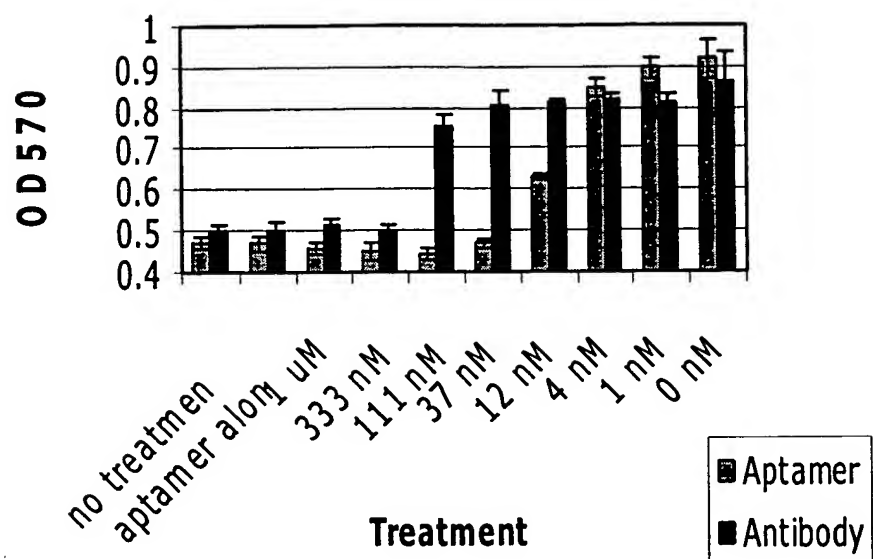


Figure 10

A)



B)

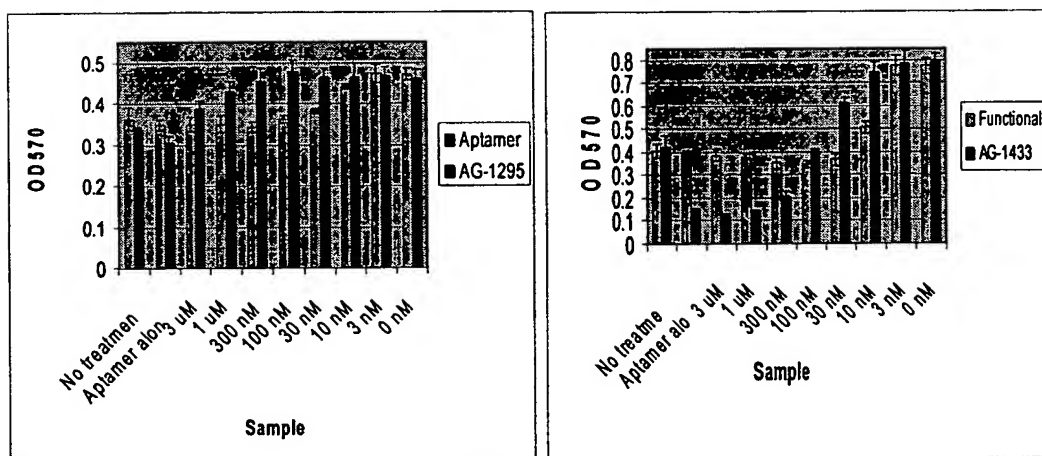
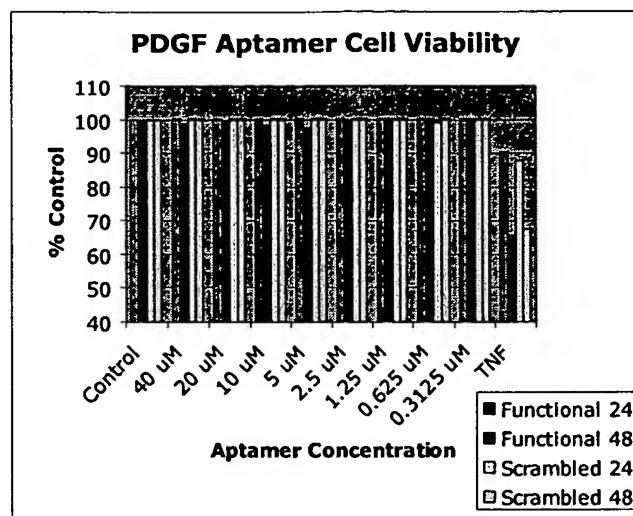
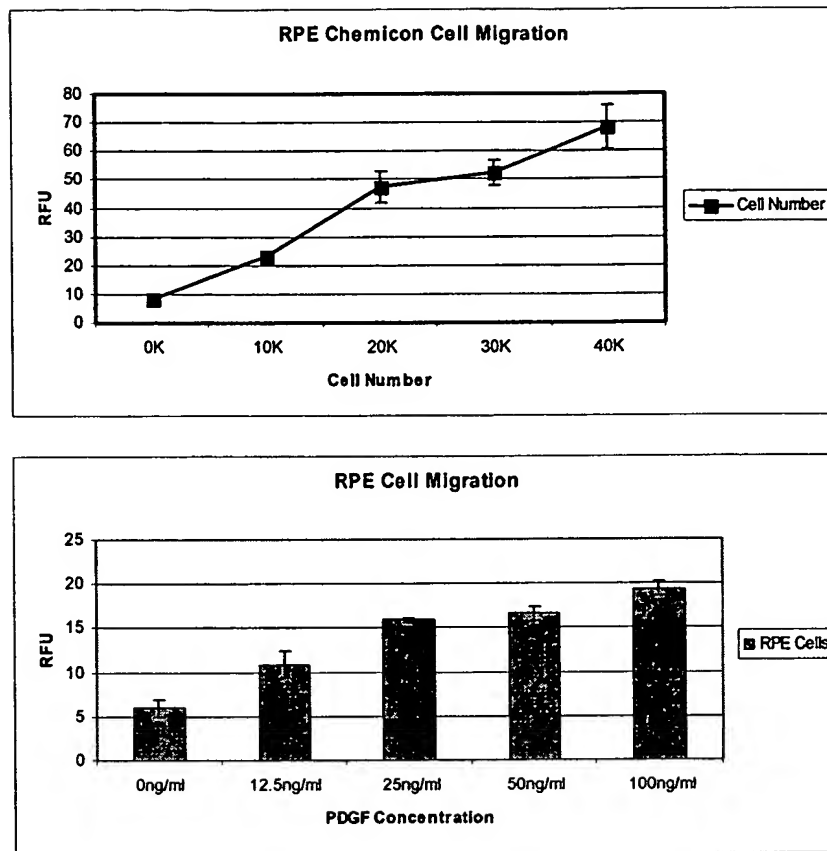


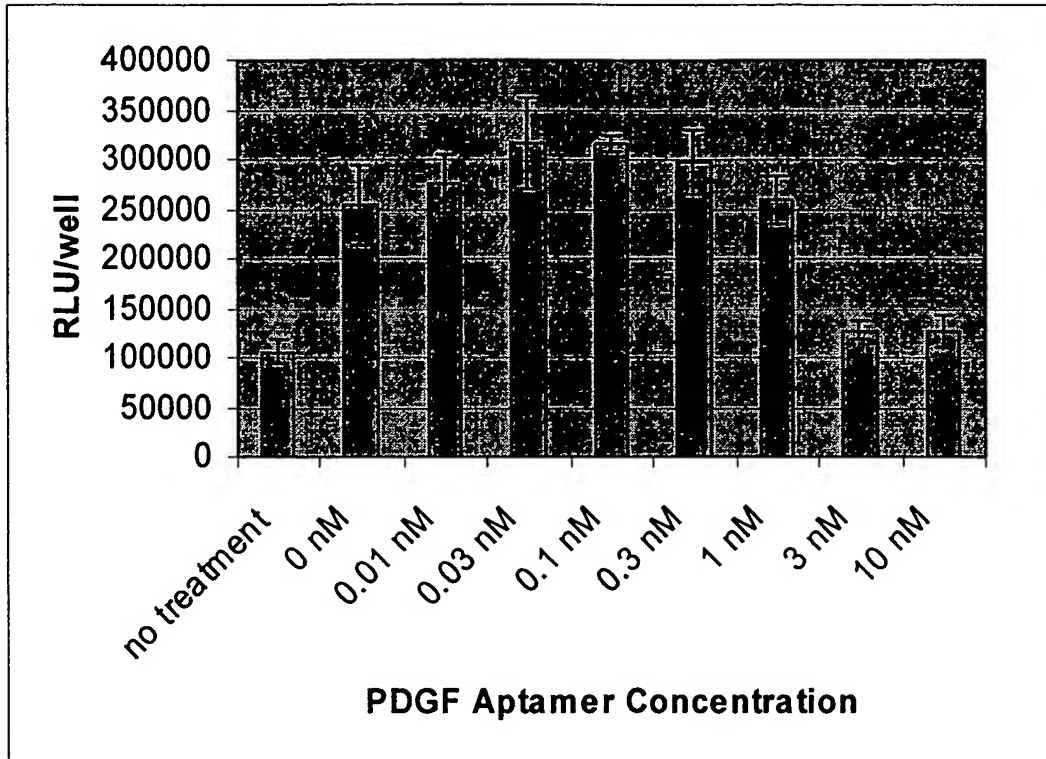
Figure 11



**Figure 12**

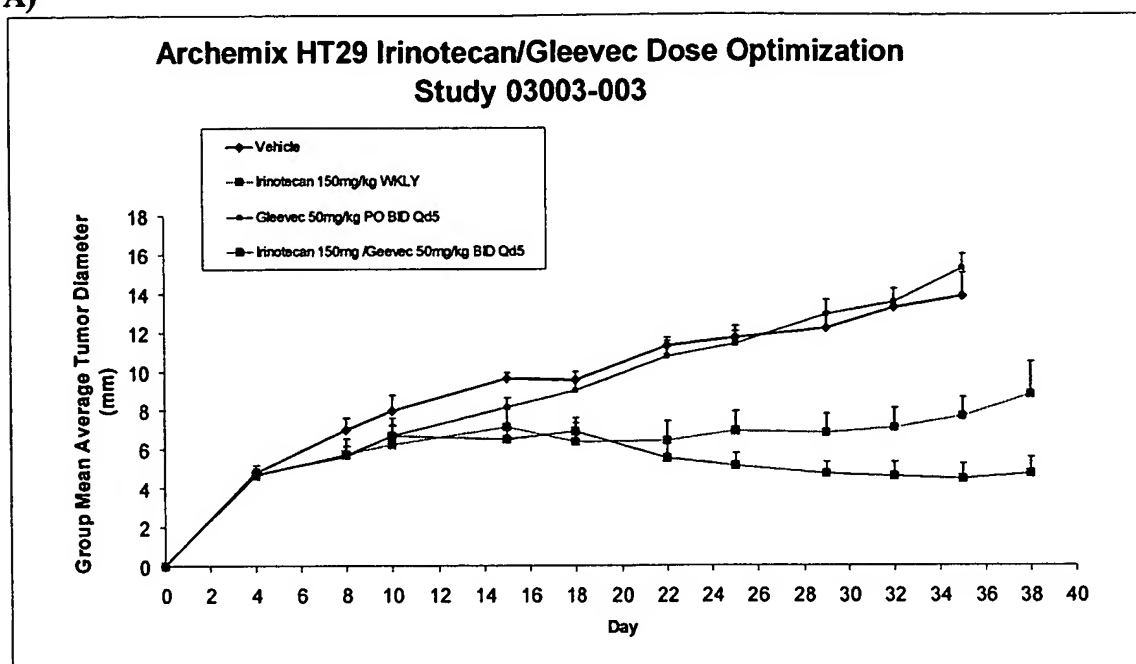


**Figure 13**



**Figure 14**

A)



B)

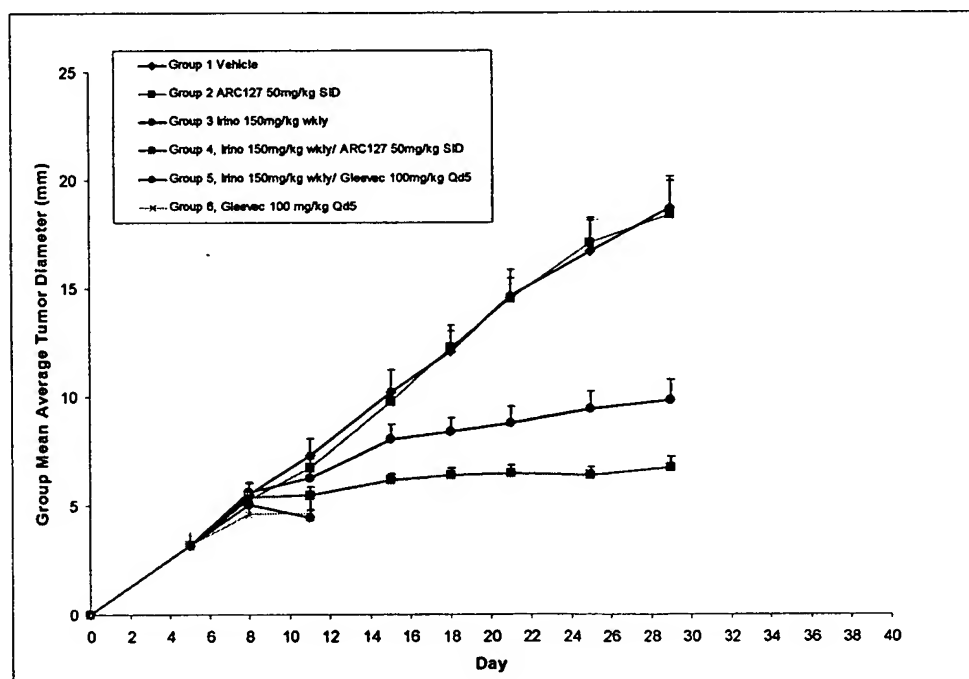
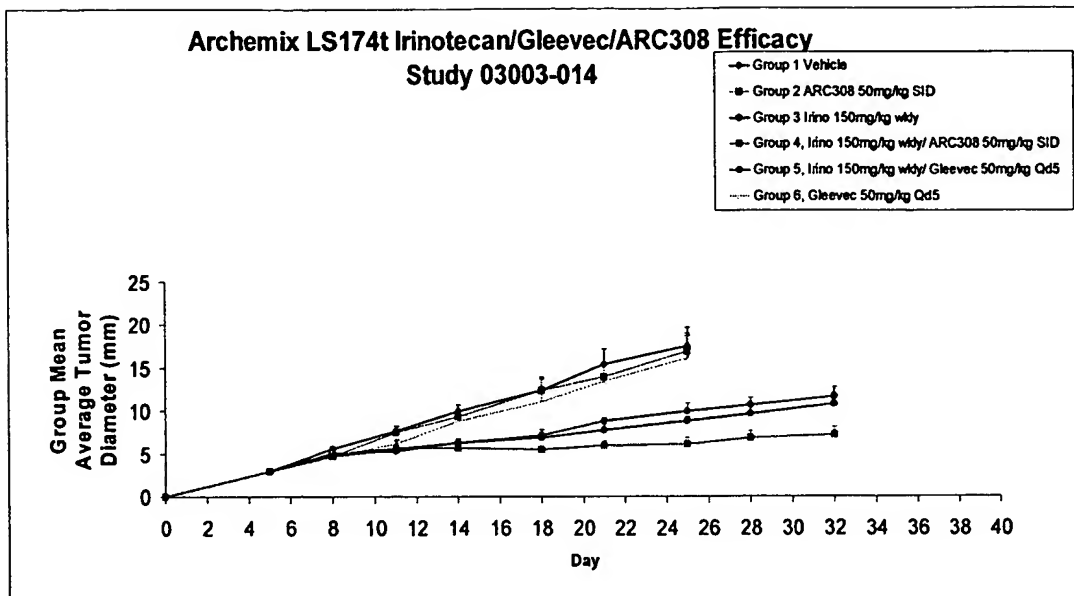


Figure 15

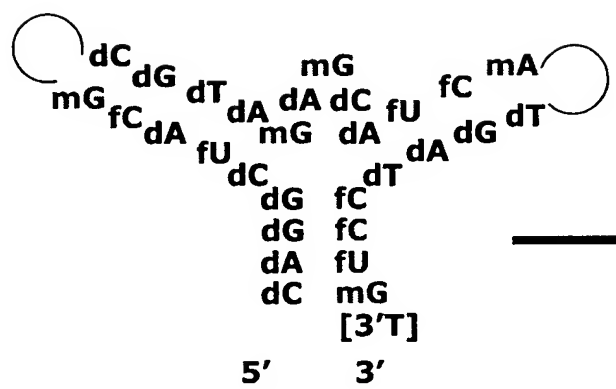




**Figure 16**

mA mA  
 mG mG  
 mA mU  
 mG mC  
 mU  
 mU mU mG  
 mG mC  
 mA  
 mC mG  
 mG mC  
 mU mA  
 mA mU  
 idT

Figure 17A



ARC126

Figure 17B

mA mA  
 mG mG  
 mA mU  
 mG mC  
 mU mU

mA mA  
 mG mG  
 mA mU  
 mG mC

MU MG  
 MU MU MG  
 MG MC

mG  
 mA mC mG  
 mG mC  
 mU mA

Diagram illustrating a DNA double helix structure. The left strand (5' to 3') contains the bases dG, dC, dA, dT, dC. The right strand (3' to 5') contains the bases dA, dT, dG, dC, dA. The base pairs are dG-dC, dC-dG, dA-dT, dT-dA, and dC-dG.

**dG - dC**  
**dG - dC**  
**dA - dU**  
**dC - dG** idT

**B)**

**dG - dC**  
**dG - dC**  
**dA - dU**  
**dC - dG**

**Figure 18**

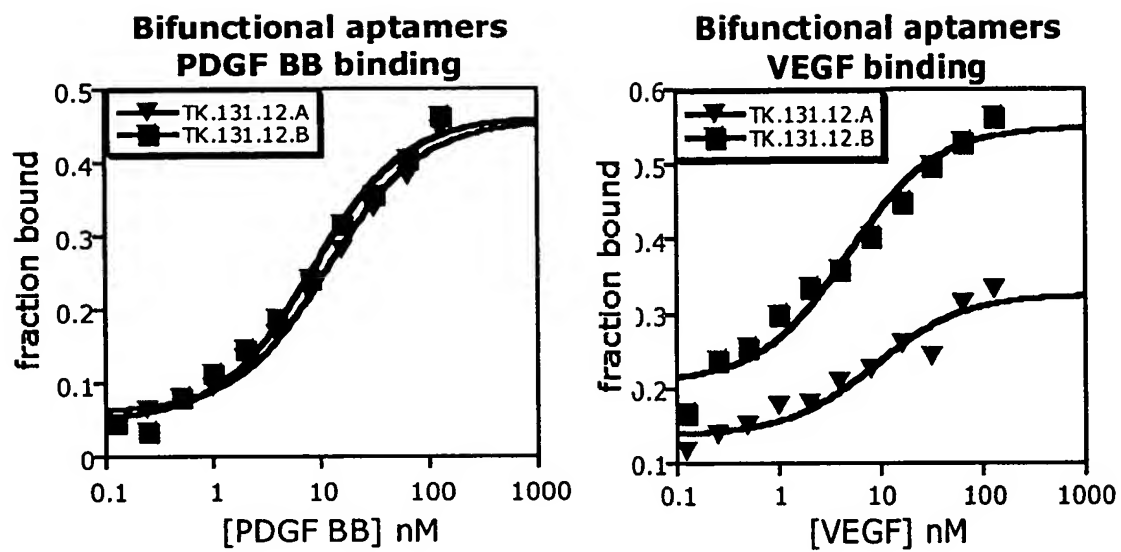
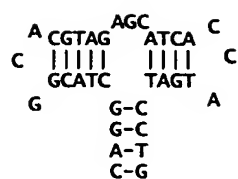
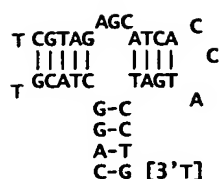


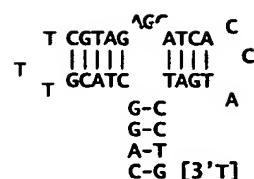
Figure 19



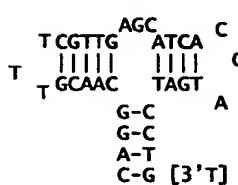
**Short ARC124**



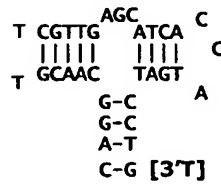
**TransARC124.1**



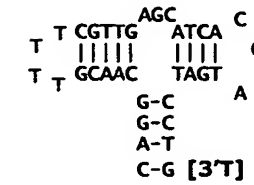
**TransARC124.2**



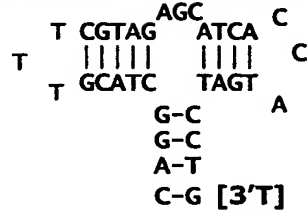
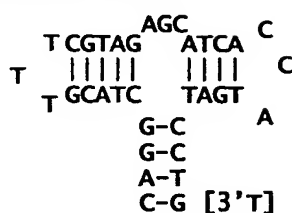
**TransARC124.3**



**TransARC124.4**

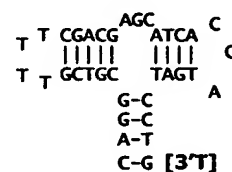
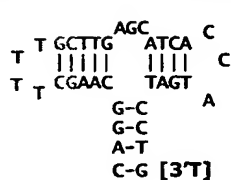
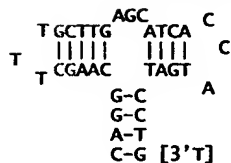


**TransARC124.5**



**TransARC124.6**

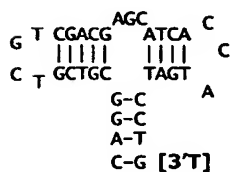
**TransARC124.7**



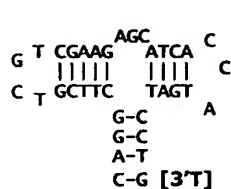
**TransARC124.3cont**

**TransARC124.5cont**

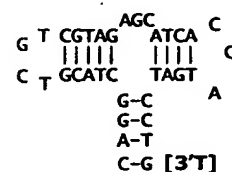
**TransARC124.8**



**TransARC124.9**



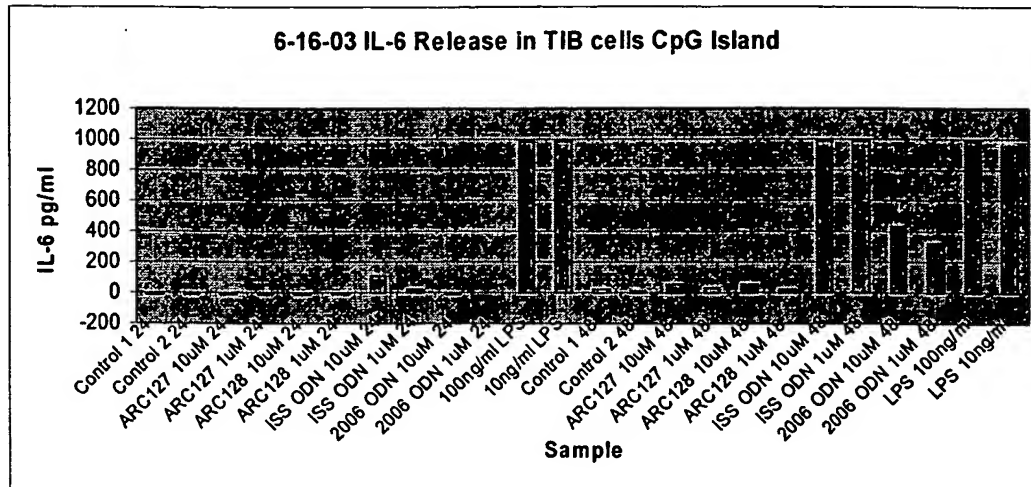
**TransARC124.10**



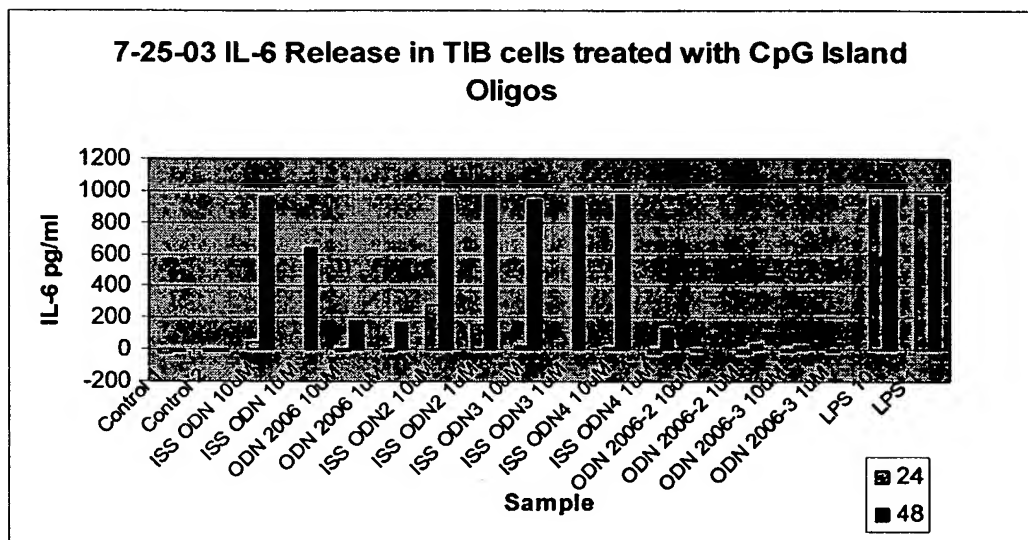
**TransARC124.11**

**Figure 20**

A)



B)



C)

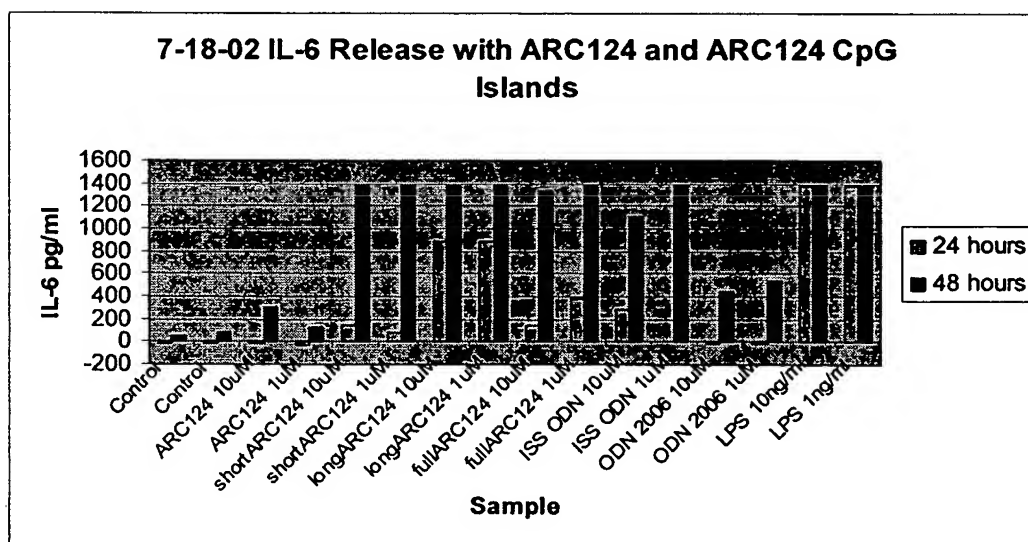
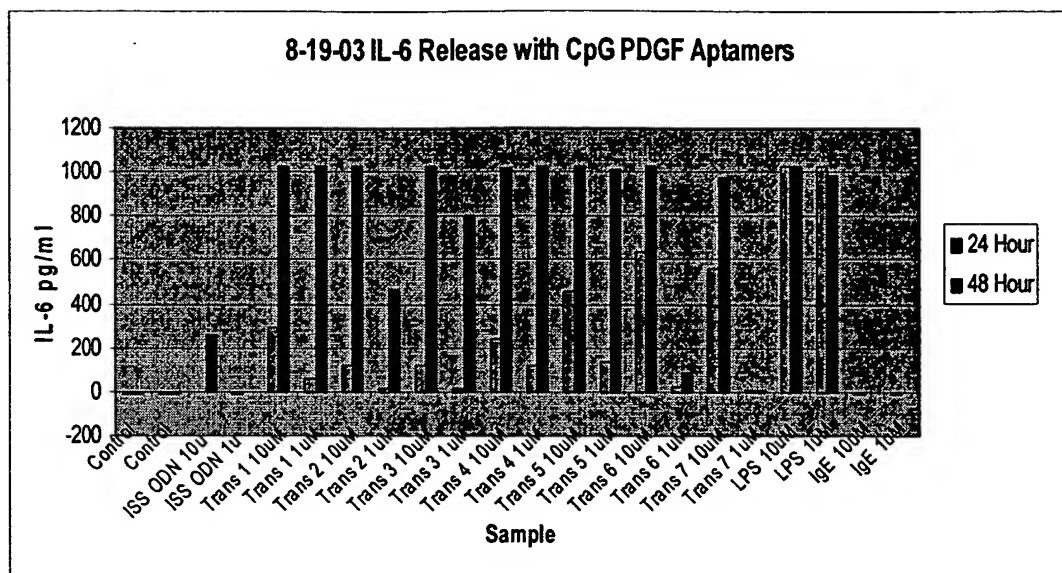
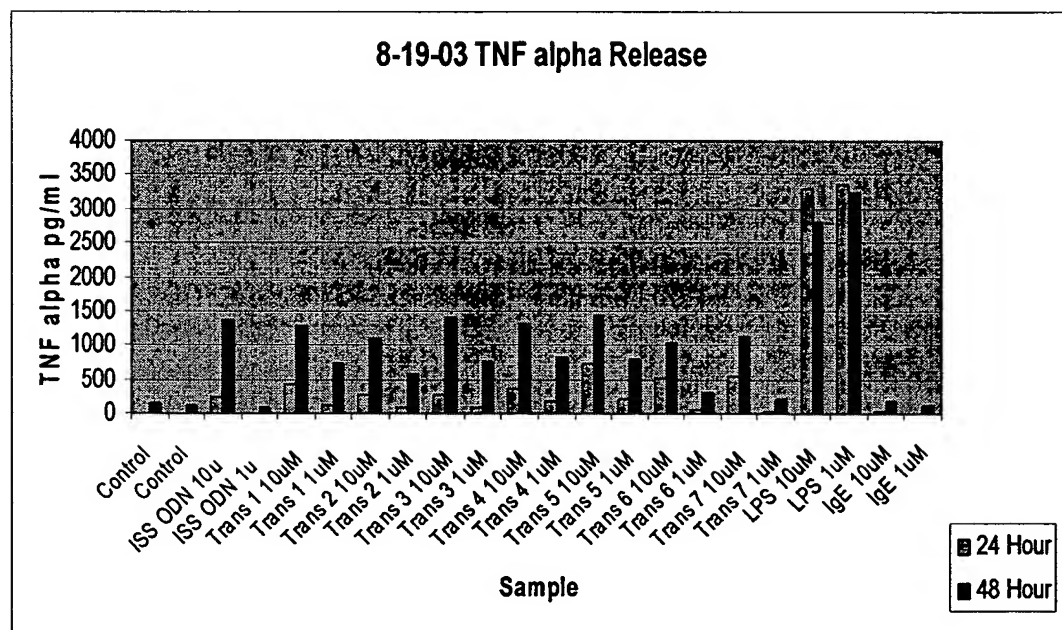


Figure 21

D)

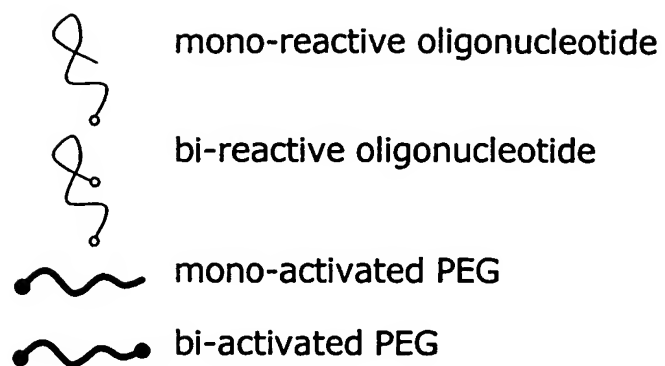


E)

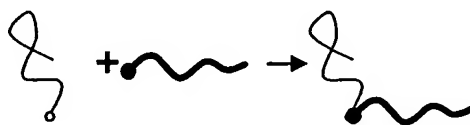


**Figure 21 (Continued)**

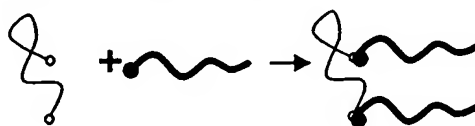
**Figure 22**



**standard PEGylation**



**multiple PEGylation**



**dimerization via PEGylation**

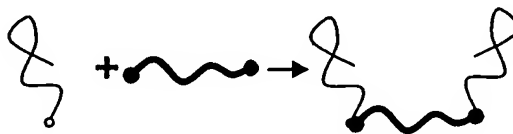




Figure 23A

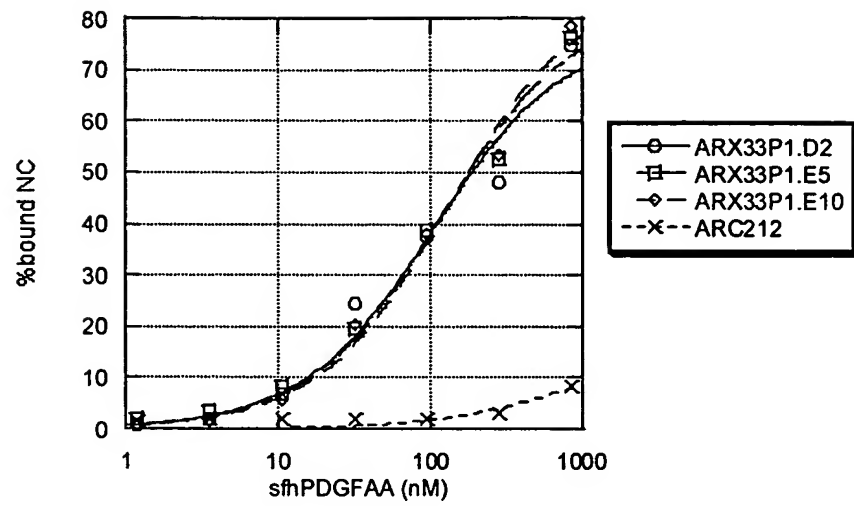


Figure 23B

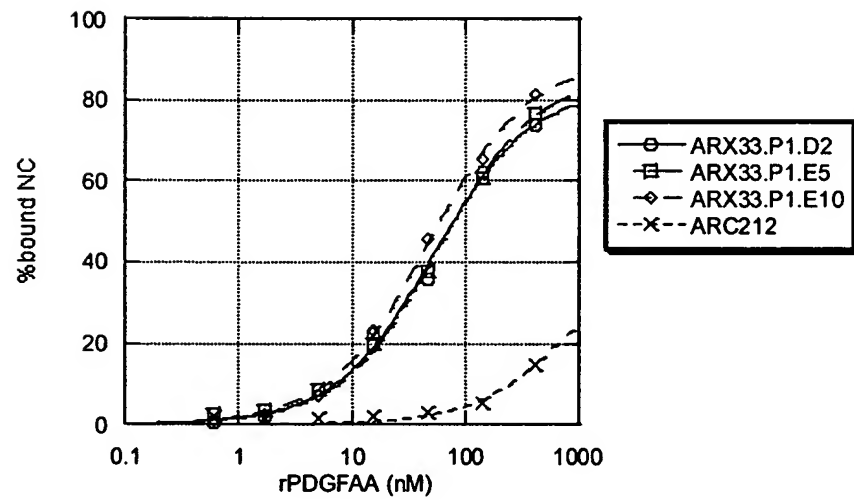


Figure 24

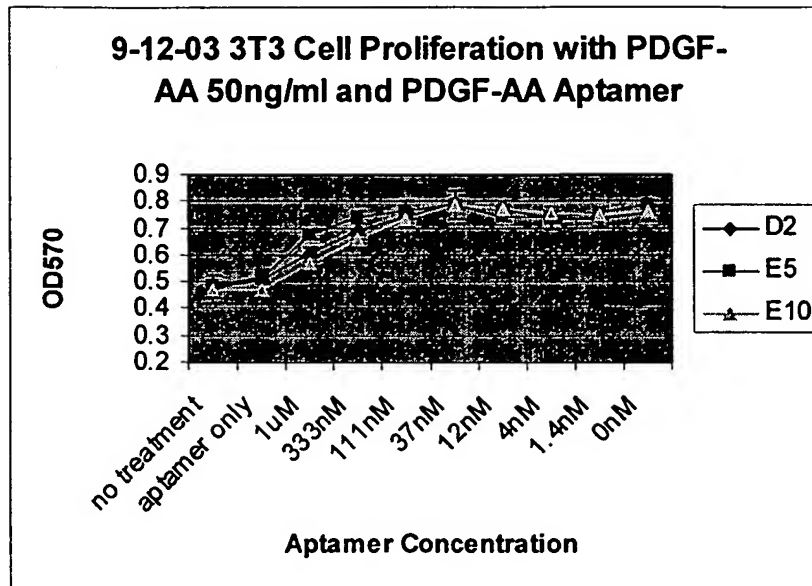


Figure 25

